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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): H. TAKAHASHI, et al

Serial No.: 09/811,606

Filed: March 20, 2001

For: MAGNETORESISTIVE SENSOR INCLUDING MAGNETIC DOMAIN CONTROL LAYERS HAVING HIGH ELECTRIC RESISTIVITY, MAGNETIC HEAD AND MAGNETIC DISK APPARATUS

Group: 2652

Examiner: J. Watko

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*Technology Center 2600*

**AMENDMENT**

Commissioner for Patents  
Washington, D.C. 20231

February 28, 2003

Sir:

The following amendments and remarks are respectfully submitted in connection with the above-identified application in response to the Office Action dated January 30, 2003.

**IN THE CLAIMS:**

Please amend claim 19 as follows:

19. (amended) A magnetic recording sensor having a structure comprising a plurality of cells in parallel including a magnetoresistive sensor for recording information, a bit line connected to the magnetoresistive sensor for flowing an electric current to the sensor, a word line in the position opposite the bit line by interposing therebetween the magnetoresistive sensor layer and in the position away from the magnetoresistive sensor layer for performing recording operation onto the magnetoresistive sensor layer orthogonally to the bit line, an amplifying system for